FIG. 1

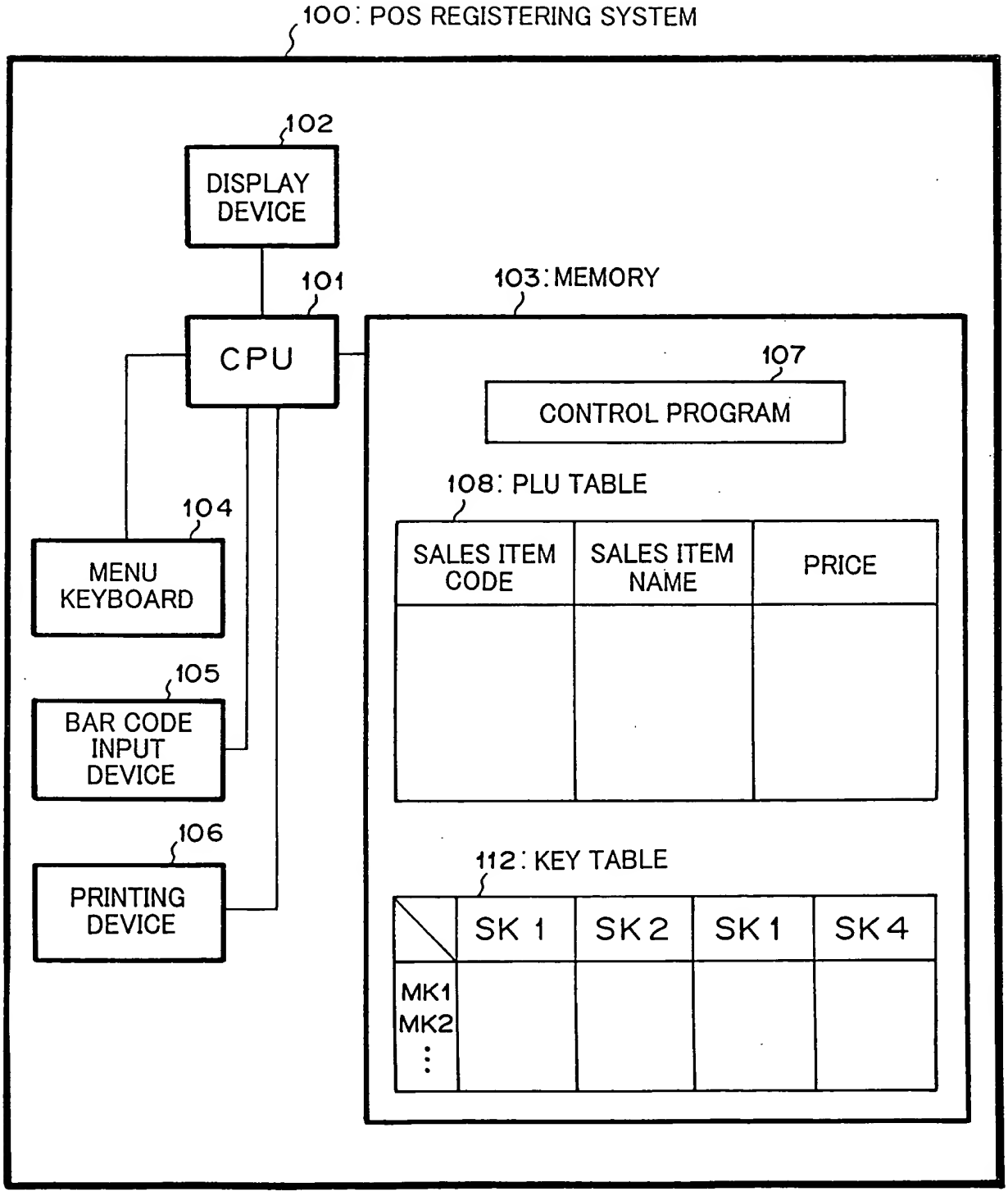

100: POS REGISTERING SYSTEM
102
DISPLAY DEVICE
101
CPU
103: MEMORY
107
CONTROL PROGRAM
108: PLU TABLE
SALES ITEM CODE
SALES ITEM NAME
PRICE
104
MENU KEYBOARD
105
BAR CODE INPUT DEVICE
106
PRINTING DEVICE
112: KEY TABLE
SK 1
SK 2
SK 1
SK 4
MK1
MK2

FIG. 2

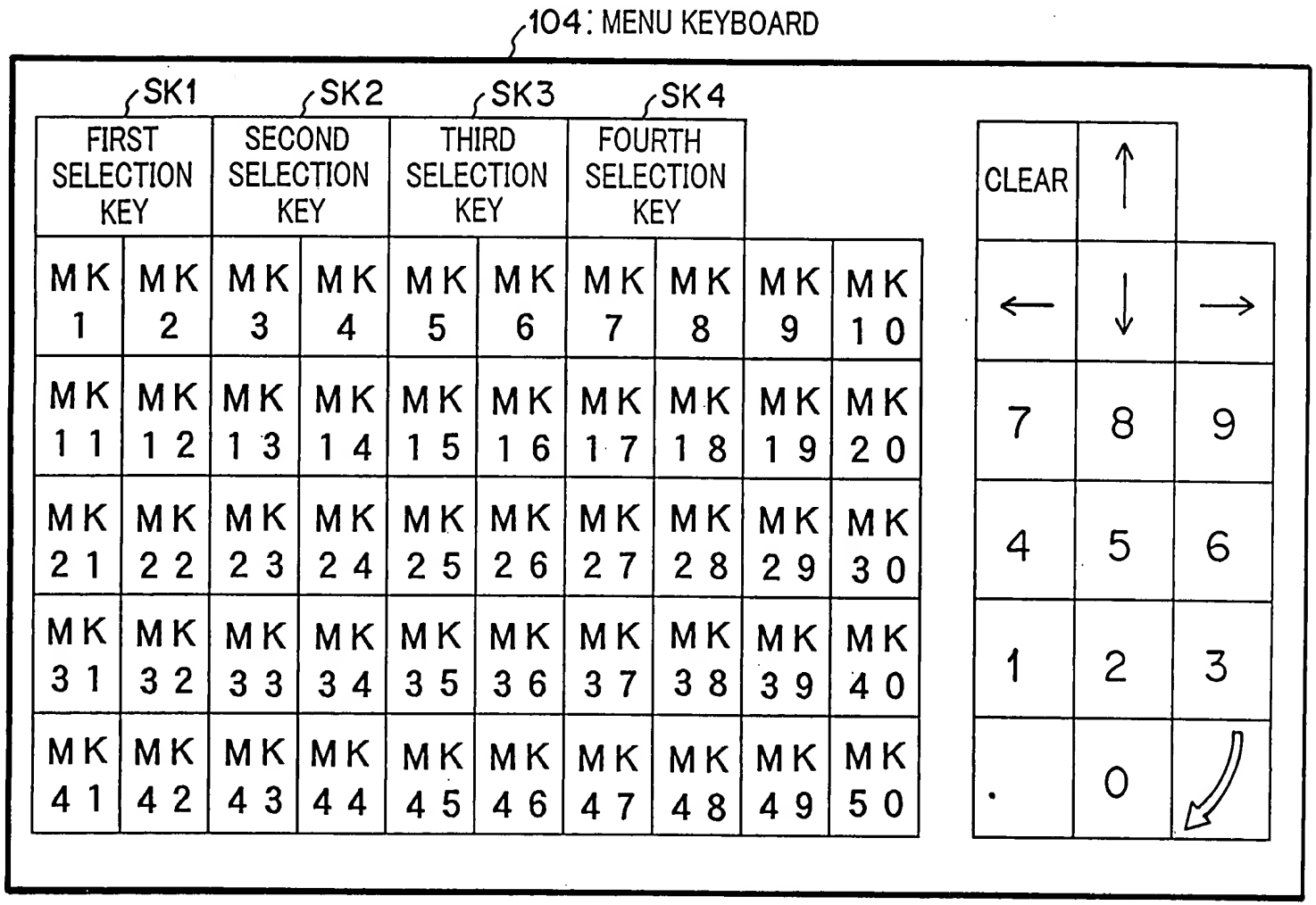
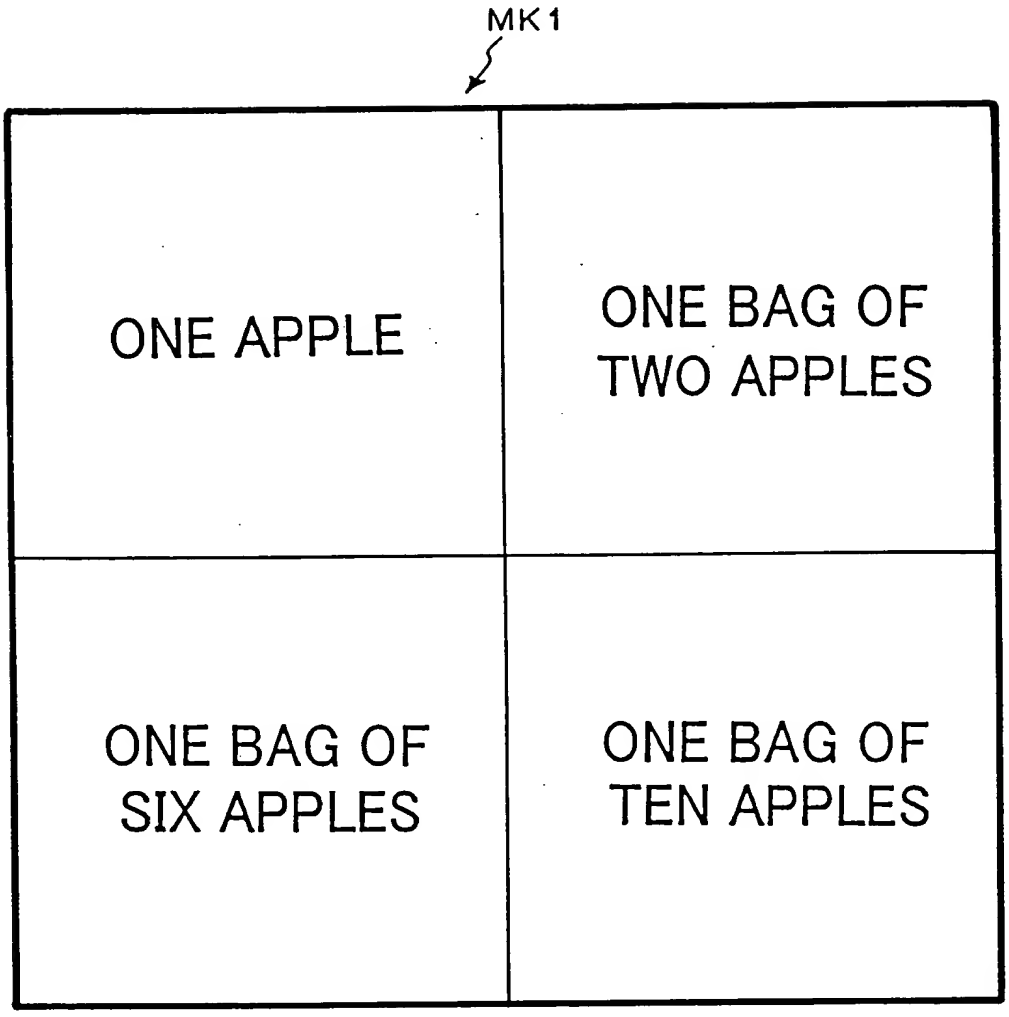

104: MENU KEYBOARD
SK1
SK2
SK3
SK4
FIRST SELECTION KEY
SECOND SELECTION KEY
THIRD SELECTION KEY
FOURTH SELECTION KEY
MK 1
MK 2
MK 3
MK 4
MK 5
MK 6
MK 7
MK 8
MK 9
MK 10
MK 11
MK 12
MK 13
MK 14
MK 15
MK 16
MK 17
MK 18
MK 19
MK 20
MK 21
MK 22
MK 23
MK 24
MK 25
MK 26
MK 27
MK 28
MK 29
MK 30
MK 31
MK 32
MK 33
MK 34
MK 35
MK 36
MK 37
MK 38
MK 39
MK 40
MK 41
MK 42
MK 43
MK 44
MK 45
MK 46
MK 47
MK 48
MK 49
MK 50
CLEAR
↑
←
↓
→
7
8
9
4
5
6
1
2
3
.
0

FIG. 3


MK1
ONE APPLE
ONE BAG OF TWO APPLES
ONE BAG OF SIX APPLES
ONE BAG OF TEN APPLES

F I G. 4

108: PLU TABLE

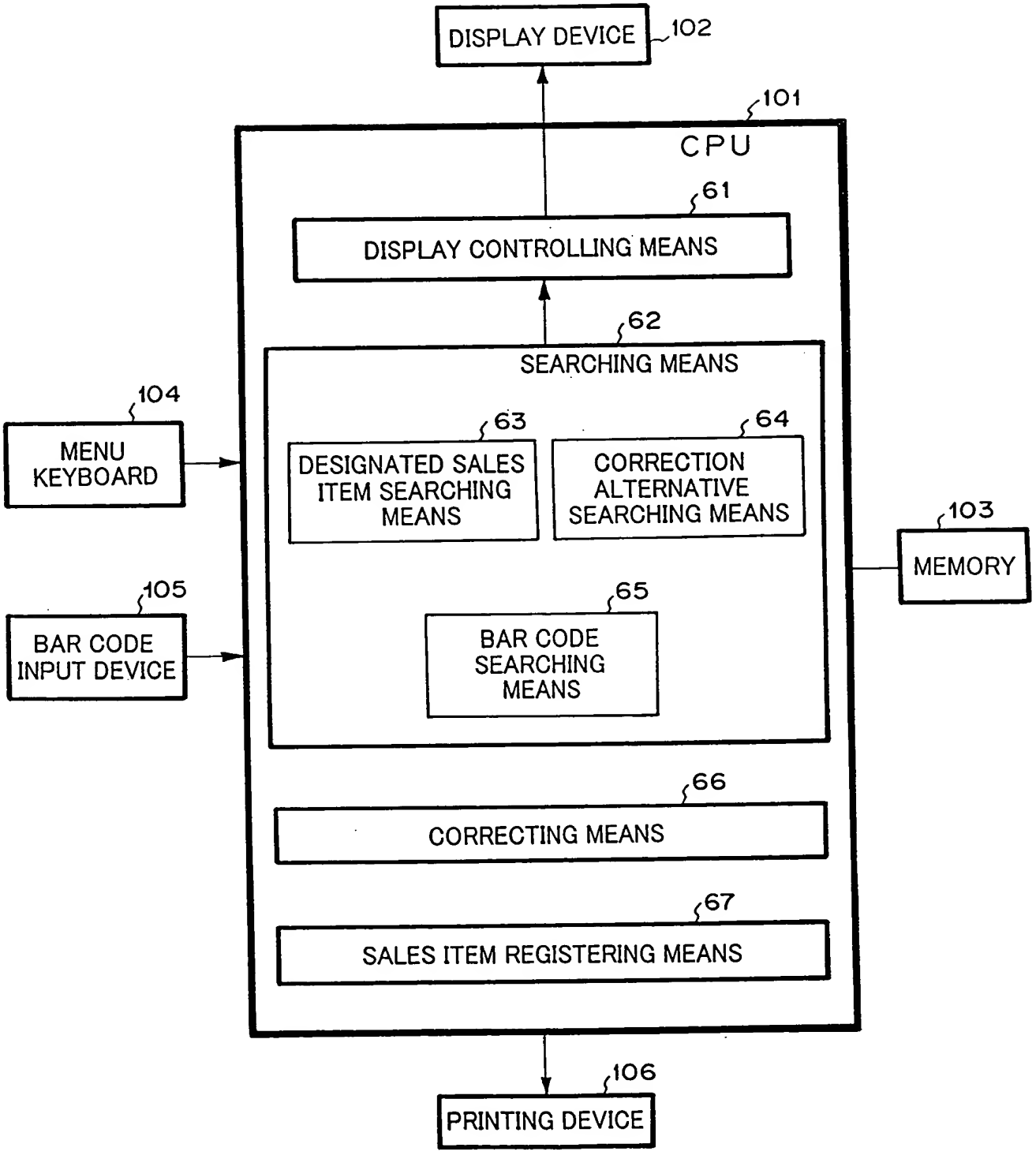
SALES ITEM CODE	SALES ITEM NAME	PRICE
0011	ONE APPLE	100
0012	ONE ORANGE	100
•		
•		
•		
0015	ONE WATERMELON	1000
0016	SELECTION 1, ONE SMALL EEL	500
	SELECTION 2, ONE MEDIUM EEL	800
	SELECTION 3, ONE LARGE EEL	1000
	SELECTION 4, ONE VERY LARGE EEL	1500
	SELECTION 5, ONE ULTRA LARGE EEL	3000
•		
•		
•		
0021	ONE BAG OF TWO APPLES	180
0031	ONE BAG OF SIX APPLES	500
0041	ONE BAG OF TEN APPLES	800
•		
•		
•		
490001	ONE TOBACCO	220
490002	ONE CHOCOLATE	120
•		
•		
•		
•		

FIG. 5

112: KEY TABLE

	KEY CODE OF SK1	KEY CODE OF SK2	KEY CODE OF SK3	KEY CODE OF SK4
KEY CODE OF MK1	0011	0021	0031	0041
KEY CODE OF MK2	0012	0022	0032	0042
KEY CODE OF MK3	0013	0023	0033	
KEY CODE OF MK4	0014	0024	0034	
KEY CODE OF MK5	0015			
KEY CODE OF MK6	0016	0016	0016	0016
⋮				

FIG. 6


DISPLAY DEVICE
102
101
CPU
61
DISPLAY CONTROLLING MEANS
62
SEARCHING MEANS
63
DESIGNATED SALES ITEM SEARCHING MEANS
64
CORRECTION ALTERNATIVE SEARCHING MEANS
65
BAR CODE SEARCHING MEANS
66
CORRECTING MEANS
67
SALES ITEM REGISTERING MEANS
104
MENU KEYBOARD
105
BAR CODE INPUT DEVICE
103
MEMORY
106
PRINTING DEVICE

F I G. 7

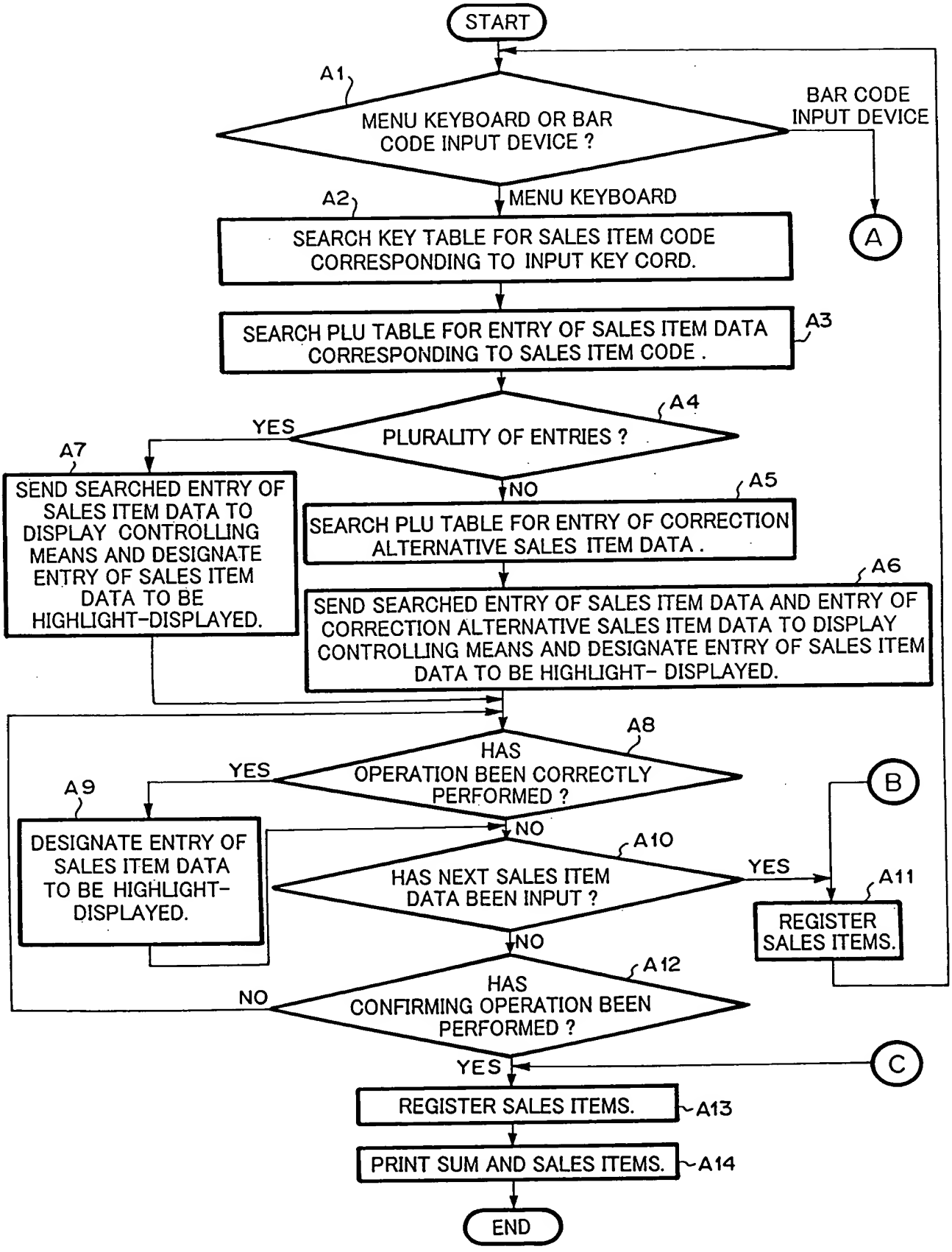

START
A1
MENU KEYBOARD OR BAR CODE INPUT DEVICE ?
BAR CODE INPUT DEVICE
MENU KEYBOARD
A
A2
SEARCH KEY TABLE FOR SALES ITEM CODE CORRESPONDING TO INPUT KEY CORD.
SEARCH PLU TABLE FOR ENTRY OF SALES ITEM DATA CORRESPONDING TO SALES ITEM CODE .
A3
A4
PLURALITY OF ENTRIES ?
YES
NO
A7
SEND SEARCHED ENTRY OF SALES ITEM DATA TO DISPLAY CONTROLLING MEANS AND DESIGNATE ENTRY OF SALES ITEM DATA TO BE HIGHLIGHT-DISPLAYED.
A5
SEARCH PLU TABLE FOR ENTRY OF CORRECTION ALTERNATIVE SALES ITEM DATA .
A6
SEND SEARCHED ENTRY OF SALES ITEM DATA AND ENTRY OF CORRECTION ALTERNATIVE SALES ITEM DATA TO DISPLAY CONTROLLING MEANS AND DESIGNATE ENTRY OF SALES ITEM DATA TO BE HIGHLIGHT- DISPLAYED.
A8
HAS OPERATION BEEN CORRECTLY PERFORMED ?
YES
NO
B
A9
DESIGNATE ENTRY OF SALES ITEM DATA TO BE HIGHLIGHT-DISPLAYED.
A10
HAS NEXT SALES ITEM DATA BEEN INPUT ?
YES
NO
A11
REGISTER SALES ITEMS.
A12
HAS CONFIRMING OPERATION BEEN PERFORMED ?
NO
YES
C
REGISTER SALES ITEMS.
A13
PRINT SUM AND SALES ITEMS.
A14
END

FIG. 8

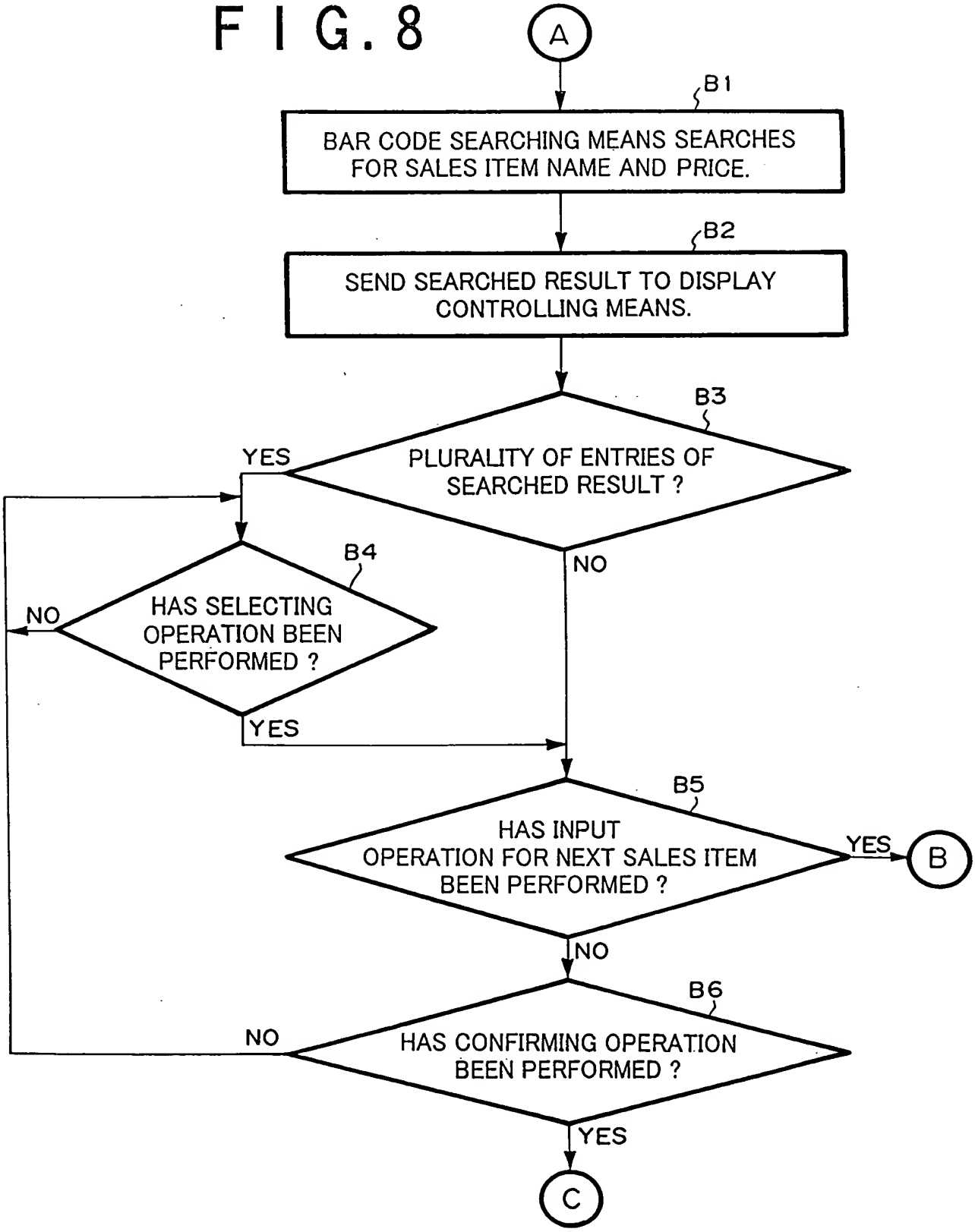

A
B1
BAR CODE SEARCHING MEANS SEARCHES FOR SALES ITEM NAME AND PRICE.
B2
SEND SEARCHED RESULT TO DISPLAY CONTROLLING MEANS.
B3
PLURALITY OF ENTRIES OF SEARCHED RESULT ?
YES
NO
B4
HAS SELECTING OPERATION BEEN PERFORMED ?
NO
YES
B5
HAS INPUT OPERATION FOR NEXT SALES ITEM BEEN PERFORMED ?
YES
B
NO
B6
HAS CONFIRMING OPERATION BEEN PERFORMED ?
NO
YES
C

FIG. 9A

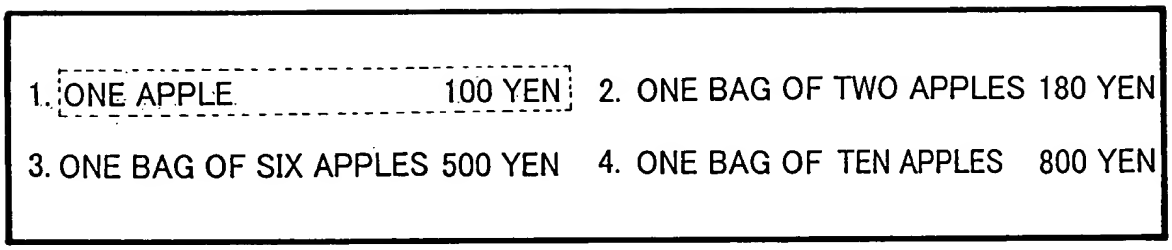


FIG. 9B

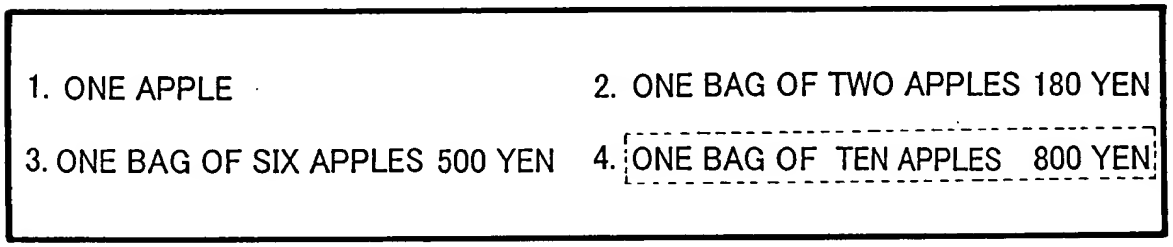


FIG. 9C

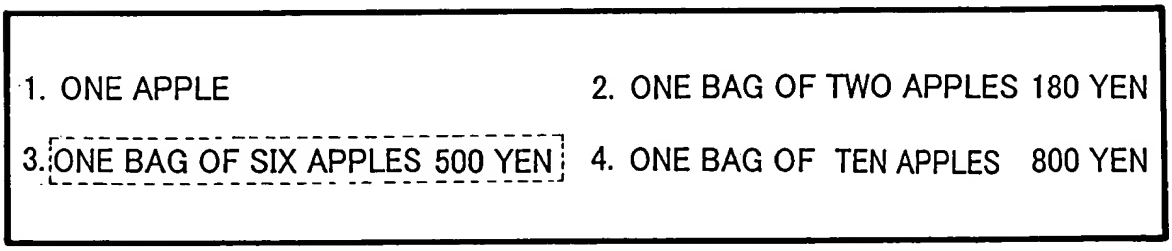


FIG.10

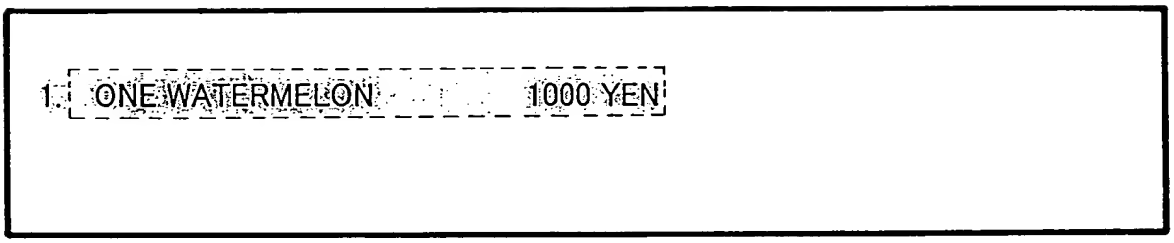


FIG.11A

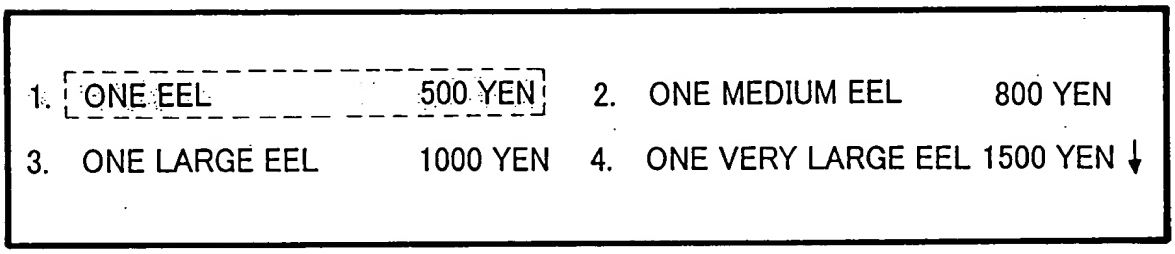


FIG.11B

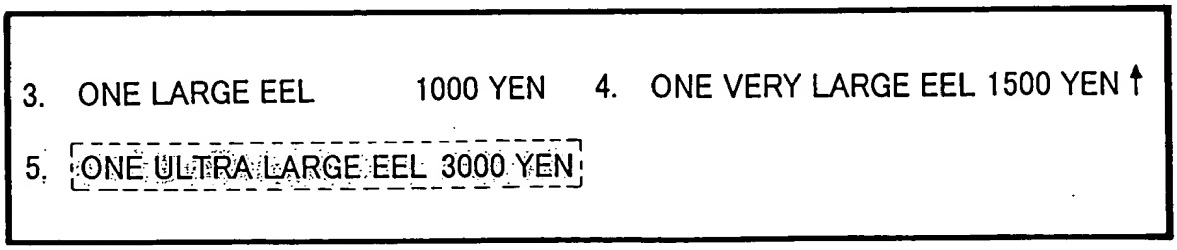


FIG. 12

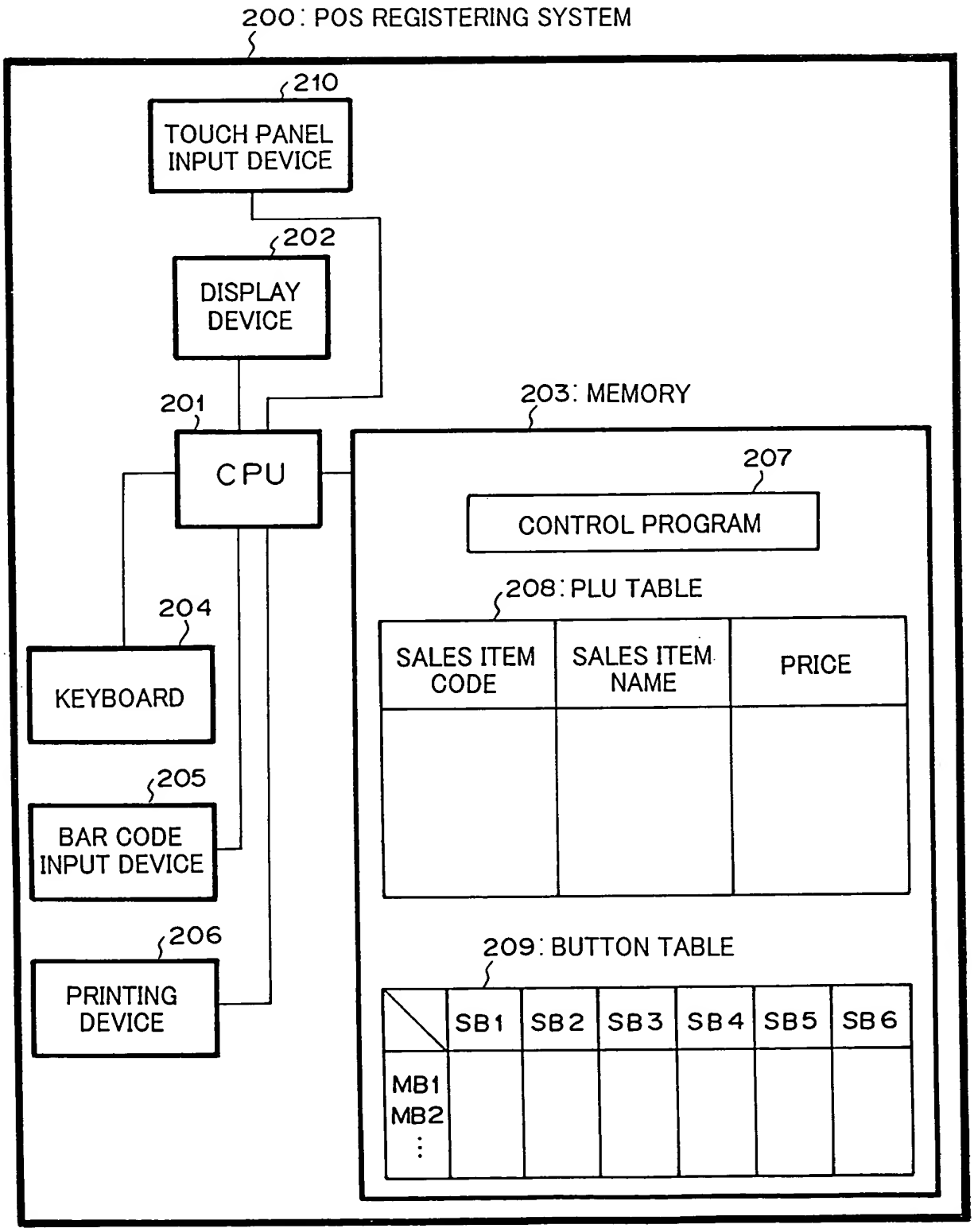

200: POS REGISTERING SYSTEM
210
TOUCH PANEL INPUT DEVICE
202
DISPLAY DEVICE
201
CPU
203: MEMORY
207
CONTROL PROGRAM
208: PLU TABLE
SALES ITEM CODE
SALES ITEM NAME
PRICE
204
KEYBOARD
205
BAR CODE INPUT DEVICE
206
PRINTING DEVICE
209: BUTTON TABLE
SB1
SB2
SB3
SB4
SB5
SB6
MB1
MB2

FIG. 13

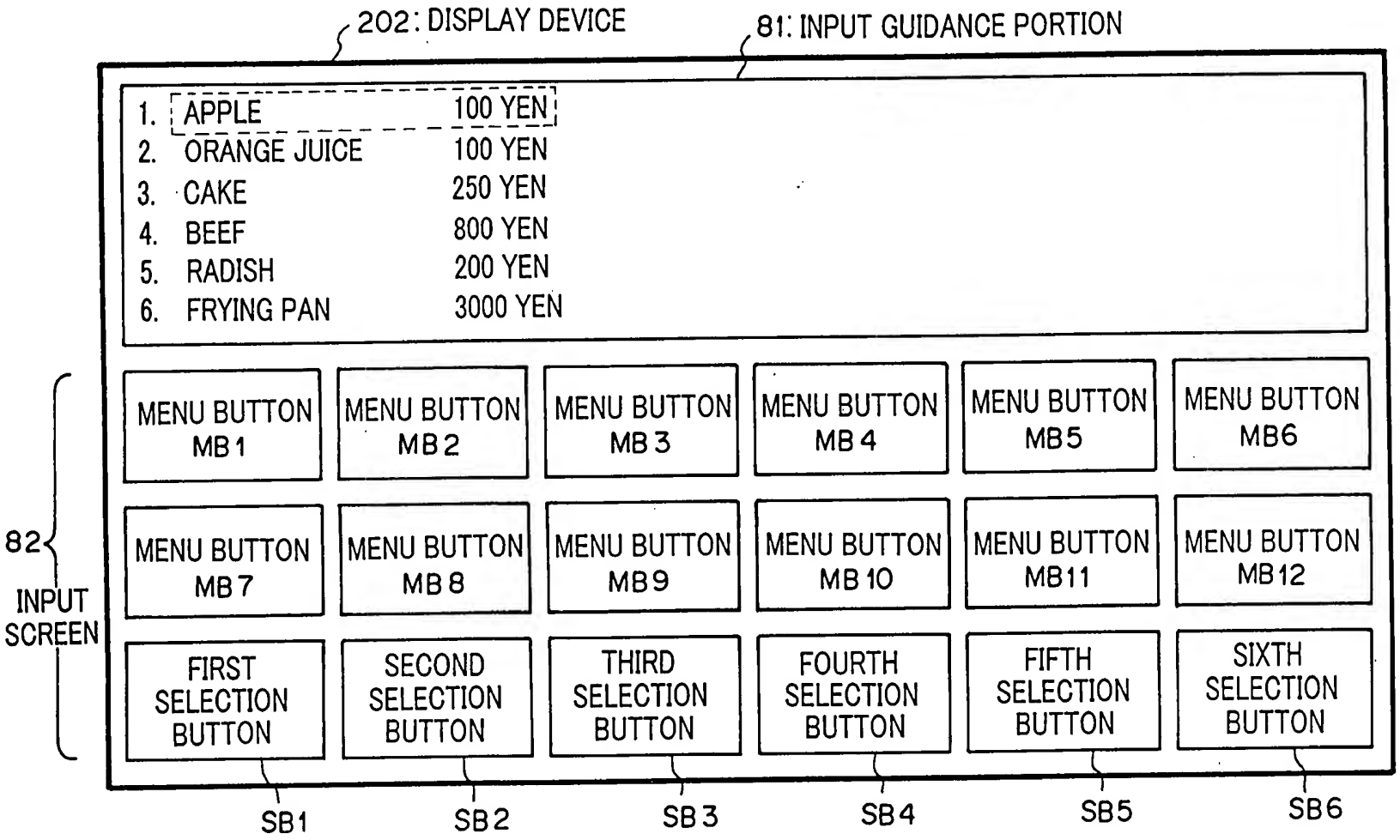

202: DISPLAY DEVICE
81: INPUT GUIDANCE PORTION
1. APPLE 100 YEN
2. ORANGE JUICE 100 YEN
3. CAKE 250 YEN
4. BEEF 800 YEN
5. RADISH 200 YEN
6. FRYING PAN 3000 YEN
MENU BUTTON MB1
MENU BUTTON MB2
MENU BUTTON MB3
MENU BUTTON MB4
MENU BUTTON MB5
MENU BUTTON MB6
MENU BUTTON MB7
MENU BUTTON MB8
MENU BUTTON MB9
MENU BUTTON MB10
MENU BUTTON MB11
MENU BUTTON MB12
FIRST SELECTION BUTTON
SECOND SELECTION BUTTON
THIRD SELECTION BUTTON
FOURTH SELECTION BUTTON
FIFTH SELECTION BUTTON
SIXTH SELECTION BUTTON
82
INPUT SCREEN
SB1
SB2
SB3
SB4
SB5
SB6

FIG.14

209

	POSITION OF SB1	POSITION OF SB2	POSITION OF SB3	POSITION OF SB4	POSITION OF SB5	POSITION OF SB6
POSITION OF MB1	0 0 1 1	0 0 2 1	0 0 3 1	0 0 4 1	0 0 5 1	0 0 6 1
POSITION OF MB2	0 0 1 2	0 0 2 2	0 0 3 2	0 0 4 2	0 0 5 2	0 0 6 2
POSITION OF MB3	0 0 1 3	0 0 2 3	0 0 3 3	0 0 4 3	0 0 4 4	0 0 6 3
POSITION OF MB4	0 0 1 4	0 0 2 4	0 0 3 4			
POSITION OF MB5	0 0 1 5					
POSITION OF MB6	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	0 0 1 6	0 0 6 6
⋮						
POSITION OF MB12						

FIG. 15

208: PLU TABLE

SALES ITEM CODE	SALES ITEM NAME	PRICE
0011	APPLE	100
0012	ORANGE	100
0013		
0014		
0015	WATERMELON	1000
0016	SELECTION 1, SMALL EEL	500
	SELECTION 2, MEDIUM EEL	800
	SELECTION 3, LARGE EEL	1000
	SELECTION 4, VERY LARGE EEL	1500
	SELECTION 5, ULTRA LARGE EEL	3000
⋮		
0021	ORANGE JUICE	100
0022	APPLE JUICE	100
0031	CAKE	250
0032	BREAD	200
0041	BEEF	800
0042	PORK	500
0051	RADISH	200
0052	CARROT	200
0061	FRYING PAN	3000
0062	PAN	2000
⋮		
490001	TOBACCO	220
490002	CHOCOLATE	120
490003		
490004		
490005		
⋮		

FIG. 16

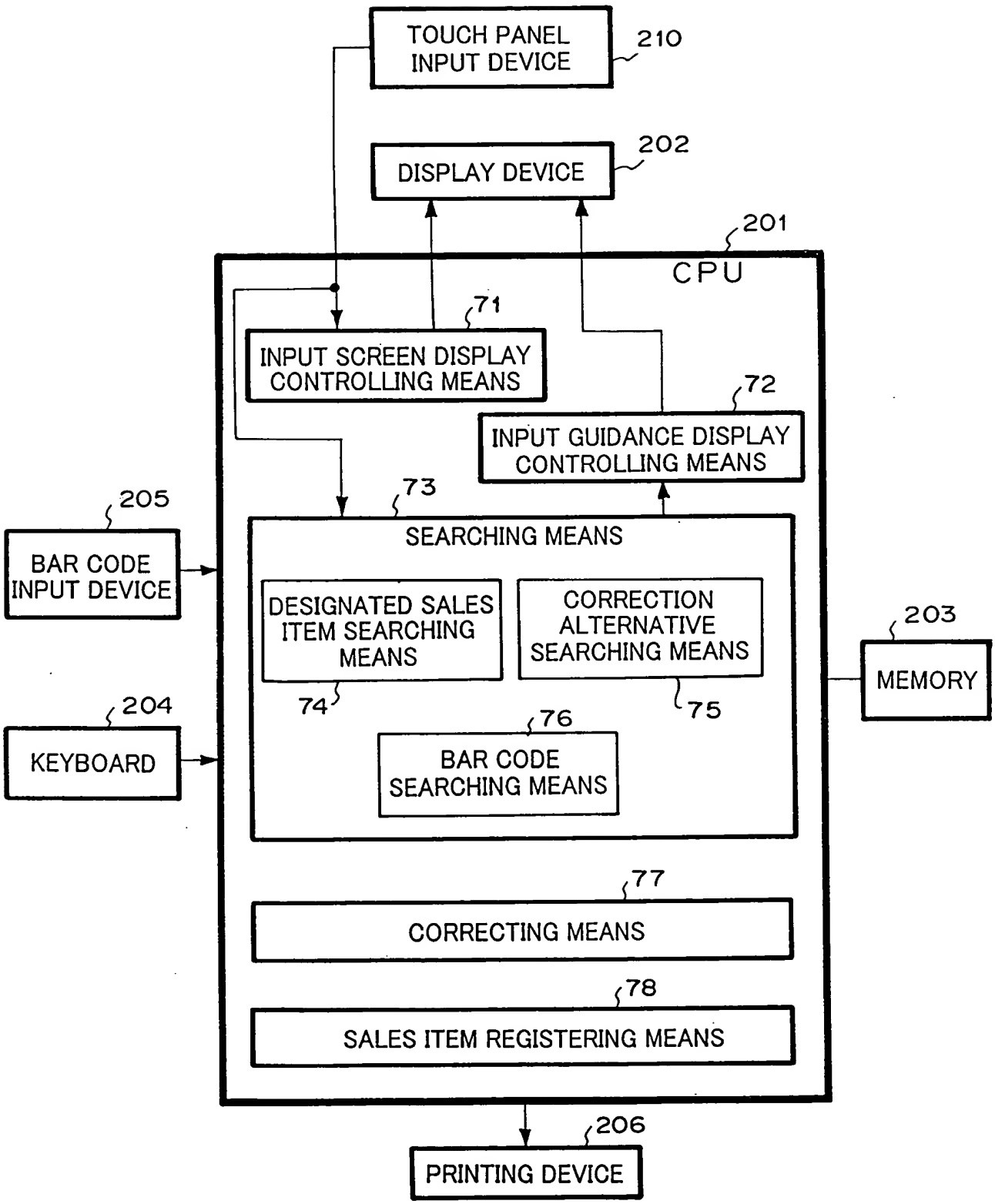

TOUCH PANEL INPUT DEVICE
210
DISPLAY DEVICE
202
201
CPU
71
INPUT SCREEN DISPLAY CONTROLLING MEANS
72
INPUT GUIDANCE DISPLAY CONTROLLING MEANS
73
SEARCHING MEANS
205
BAR CODE INPUT DEVICE
DESIGNATED SALES ITEM SEARCHING MEANS
CORRECTION ALTERNATIVE SEARCHING MEANS
203
MEMORY
74
75
204
KEYBOARD
76
BAR CODE SEARCHING MEANS
77
CORRECTING MEANS
78
SALES ITEM REGISTERING MEANS
206
PRINTING DEVICE

FIG. 17

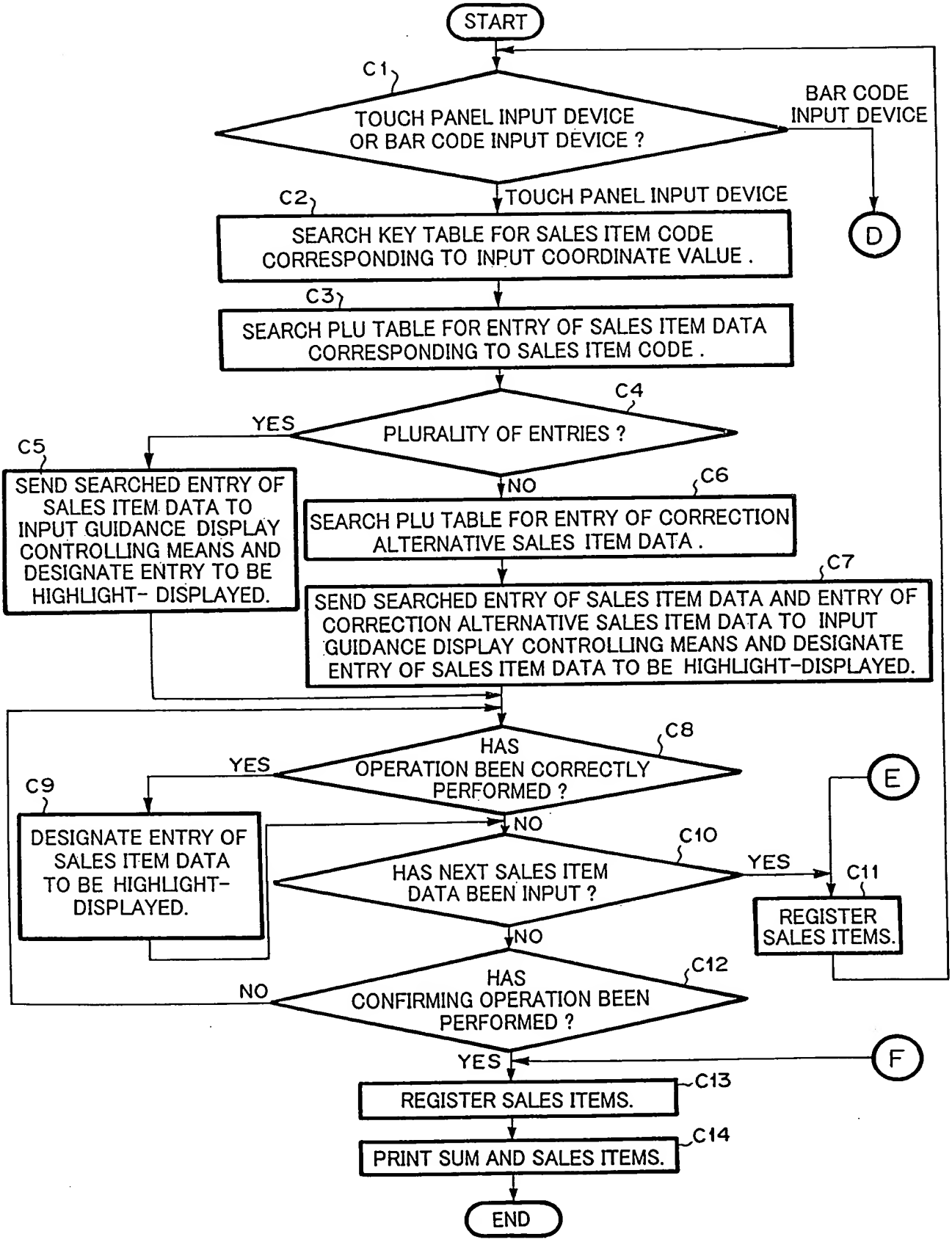
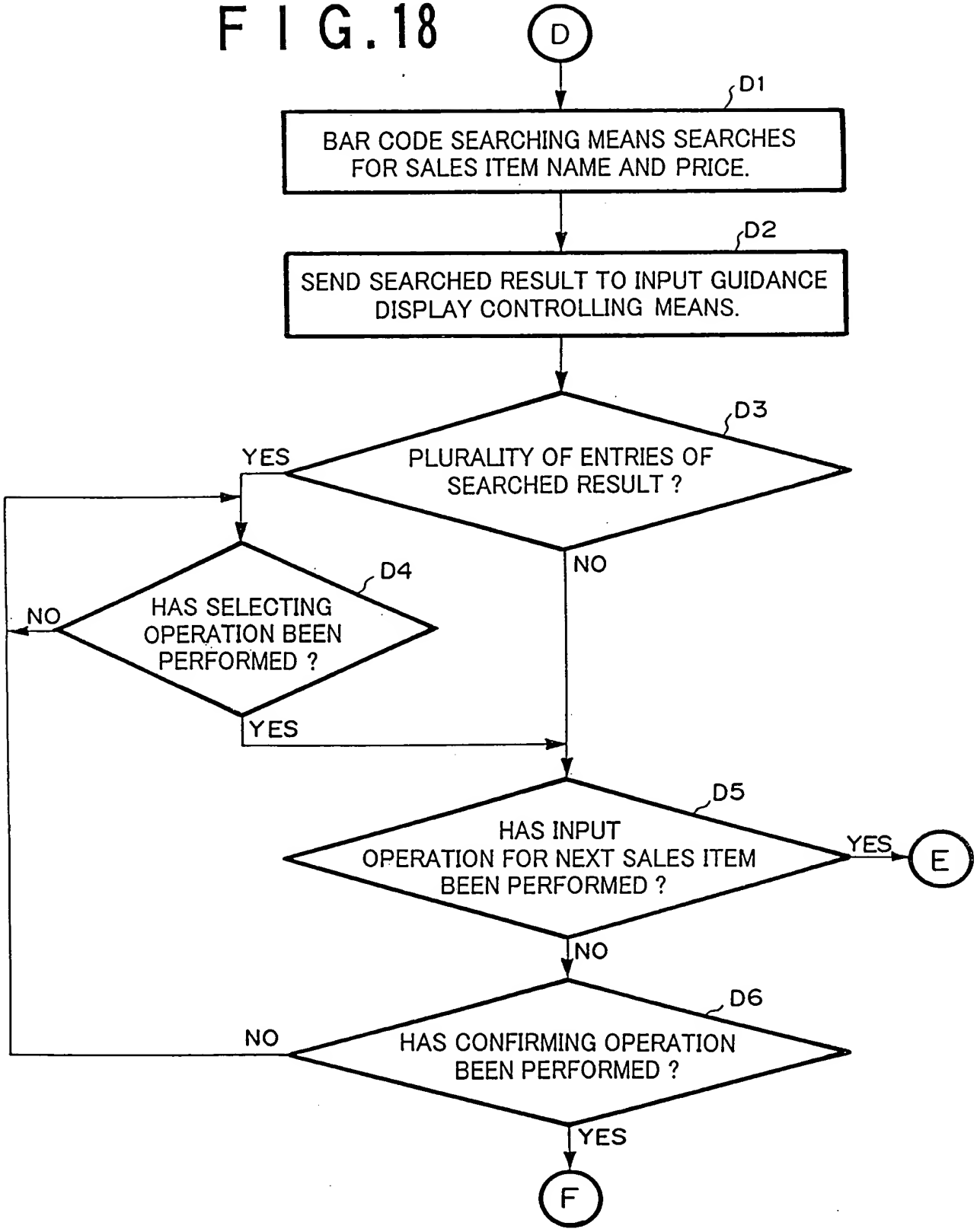

START
C1
TOUCH PANEL INPUT DEVICE OR BAR CODE INPUT DEVICE ?
BAR CODE INPUT DEVICE
TOUCH PANEL INPUT DEVICE
D
C2
SEARCH KEY TABLE FOR SALES ITEM CODE CORRESPONDING TO INPUT COORDINATE VALUE .
C3
SEARCH PLU TABLE FOR ENTRY OF SALES ITEM DATA CORRESPONDING TO SALES ITEM CODE .
C4
PLURALITY OF ENTRIES ?
YES
NO
C5
SEND SEARCHED ENTRY OF SALES ITEM DATA TO INPUT GUIDANCE DISPLAY CONTROLLING MEANS AND DESIGNATE ENTRY TO BE HIGHLIGHT- DISPLAYED.
C6
SEARCH PLU TABLE FOR ENTRY OF CORRECTION ALTERNATIVE SALES ITEM DATA .
C7
SEND SEARCHED ENTRY OF SALES ITEM DATA AND ENTRY OF CORRECTION ALTERNATIVE SALES ITEM DATA TO INPUT GUIDANCE DISPLAY CONTROLLING MEANS AND DESIGNATE ENTRY OF SALES ITEM DATA TO BE HIGHLIGHT-DISPLAYED.
C8
HAS OPERATION BEEN CORRECTLY PERFORMED ?
YES
NO
C9
DESIGNATE ENTRY OF SALES ITEM DATA TO BE HIGHLIGHT-DISPLAYED.
C10
HAS NEXT SALES ITEM DATA BEEN INPUT ?
YES
NO
E
C11
REGISTER SALES ITEMS.
C12
HAS CONFIRMING OPERATION BEEN PERFORMED ?
NO
YES
F
C13
REGISTER SALES ITEMS.
C14
PRINT SUM AND SALES ITEMS.
END

FIG. 18


D
D1
BAR CODE SEARCHING MEANS SEARCHES FOR SALES ITEM NAME AND PRICE.
D2
SEND SEARCHED RESULT TO INPUT GUIDANCE DISPLAY CONTROLLING MEANS.
D3
PLURALITY OF ENTRIES OF SEARCHED RESULT ?
YES
NO
D4
HAS SELECTING OPERATION BEEN PERFORMED ?
NO
YES
D5
HAS INPUT OPERATION FOR NEXT SALES ITEM BEEN PERFORMED ?
YES
E
NO
D6
HAS CONFIRMING OPERATION BEEN PERFORMED ?
NO
YES
F